Amendments to the Claims:

1. (original) A method for coating a carbon velvet material attached to a cathode to make a field emission cold cathode, comprising:

forming a solution of a low work function cesiated salt and de-ionized water; spraying the carbon velvet material with the cesiated salt solution to form a coated carbon velvet material;

baking the coated carbon velvet material at a temperature of at least 100 °C for approximately an hour in a vacuum oven evacuated to less than 1 torr.; and venting the vacuum oven to an atmospheric pressure using dry nitrogen.

- 2. (original) A coating method as recited in Claim 1, wherein the spraying step includes pressurizing a spraying means with dry nitrogen.
- 3. (original) A coating method as recited in Claim 1, wherein the cesiated salt is selected from a group consisting of cesium tellurate and cesium bromide.
- 4. (currently amended) A coating method as recited in Claim 1, wherein the steps of forming, spraying, baking, and venting are repeated until a film of cesiated salt having a <u>desired</u> thickness of 1 angstrom to 10 microns is formed on each of a plurality of shafts of the carbon velvet material.
- 5. (currently amended) A method of making a field emission cold cathode, comprising:

forming a solution of a cesiated salt; coating only tips of a carbon velvet material with the cesiated salt solution; and bonding the carbon velvet material to a cathode.

6-7 (canceled)

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8. (original) A method of making a field emission cold cathode, comprising:

depositing a vaporized cesiated salt solution onto fibers of a carbon velvet
material;

forming cesiated salt crystals on the fibers; and bonding the carbon velvet material to a cathode.

- 9. (canceled)
- 10. (currently amended) A method as recited in Claim <u>8</u> 9 wherein the fibers have tips, and the cesiated salt crystals are formed only on the tips.
 - 11-12 (canceled)
- 13. (currently amended) A method of making a field emission cold cathode comprising:

attaching a carbon velvet material having fibers to a cathode; dipping the fibers in a molten cesiated salt solution; and cooling the solution while the fibers are immersed in the solution.

- 14. (original) A method as recited in Claim 13 wherein the fibers have tips, and only the tips are dipped in the molten cesiated salt solution.
- 15. (currently amended) A method of making a field emission cold cathode comprising:

attaching a carbon velvet material having fibers to a cathode; dipping the fibers in a molten cesiated salt solution; <u>and</u> removing the fibers from the solution; and cooling the fibers after the fibers have been removed from the solution.

16. (original) A method as recited in Claim 15 wherein the fibers have tips, and only the tips are dipped in the molten cesiated salt solution.

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17. (currently amended) A method as recited in Claim 15 wherein the steps of dipping, and removing and cooling are repeated until a film of cesiated salt having a desired thickness of 1 angstrom to 10 microns is formed on a plurality of the fibers.

18. (original) A method as recited in Claim 17 wherein the fibers have tips, and only the tips are dipped in the molten cesiated salt solution.